TARC

TITUSVILLE AMATEUR RADIO CLUB

October, 1992

NEWSLETTER

OFFICERS

President: Bud Hughes K4CWG 269-0779 Secretary: Jerry Richards KC4YDP 459-2073
VicePresident: Cliff Hoag KC4SYD 267-7030 Treasurer: Walt Hart KC4VVG 267-4590

PRESIDENT'S CORNER

By: Bud Hughes K4CWG

At last autumn is here. With the change from summer to winter, we are blessed by many of our club members returning from up north to be with us til spring.

The TARC tailgate/mini hamfest was a success even though it rained and rained. Jose and Carole, you made it a success, and we all had a good time.

Have you noticed how Cliff is arranging the TARC Thursday evening Friendship Net check-ins? By blood type, number of years you've had your ticket -- I'll bet he'll be having us check in by 1) color of eyes, 2) weight, 3) age, 4) IQ --- oh no! I'd be last then for sure. Just kidding, Cliff. Keep up the good work.

W4EPU has agreed to be chairman for the upcoming TARC Christmas party. Pike will be needing your assistance. Give him a call.

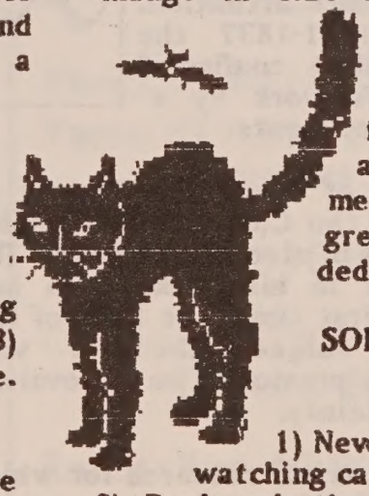
See you at the Oct. 27, meeting.

73 Bud

EDITOR'S DESK

By: Becky Lee - OM Clyde K4EOS

Last month the newsletter was all set to go to press when Walt KC4VVG called to tell me that the Emma Parish Theatre did printing at cost for nonprofit organizations. When I checked it out, the savings in printing cost made the change in size seem trivial. Because Bud K4CWG donated the paper, the total cost of printing the newsletter was $7.60, for a savings to the club of approximately $30.00. The members owe Walt and Bud a great big "THANK YOU" for their dedication to the club.



SOME PRETTY GOOD RULES

By :Norm AA4FY

1) Never argue with an idiot; people watching can't tell who's who.
2) Don't ask the question if you cannot live with the answer.
3) If you don't know where you're going, any road will get you there.
4) Never look back unless you intend to go that way.
5) Never wrestle with a pig; you both get dirty and the pig likes it.

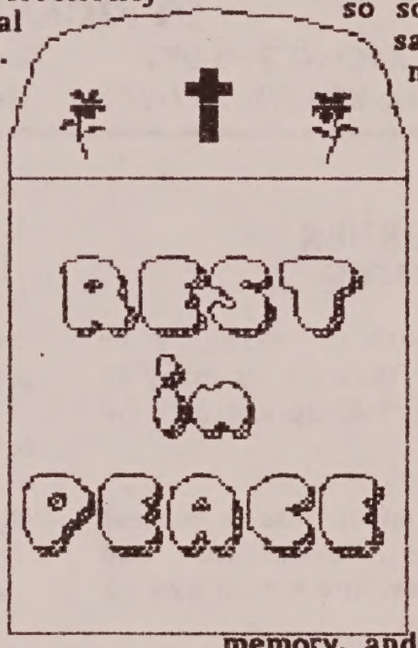
MISTER OHM

Condensed from article in CQ August 1990

by Lewis Coe W9CNY

George Simon Ohm (1789-1854) was born in Erlangen, Bavaria. His father and grandfather were locksmiths. His father wanted to give his son a university education, but also stipulated that he learn the locksmith trade - just in case. It has not been recorded that Ohm ever had to fall back on his locksmithing trade after he got into electrical research!

Eventually receiving the degree of Doctor of Philosophy, he held a variety of posts as a university instructor, all the while working on new theories of electricity. Ohm worked at a time when exact measurements of electricity and principles of design for electrical instruments scarcely existed. Ill-defined expressions relating to quantity and intensity, combined with immature ideas of conductivity and derived circuits, made it almost impossible to widen the scope of electrical investigation. Using primitive laboratory equip- ment that would not even get a "boat anchor" rating at a hamfest, OHM hammered out some of the basic principles of electrical circuits. His book 'Die galvanische Kette, mathematisch bearbeitet' published in Berlin in May 1827, did not immediately attract much attention, but in the years 1831-1837 the French scientist Pouillet confirmed the validity of Ohm's work by a series of brilliant experiments.

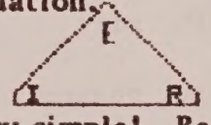


In 1841 the Council of the Royal Society of London awarded Ohm the Copley Medal for his research into the laws of electric currents. The council declared that in his books Ohm had established, for the first time, the laws of the electric circuit, a subject then of vast importance which had previously been involved in the greatest uncertainty.

In addition to the electrical research for which he is best remembered, Ohm made an important contribution to acoustic science. His law of combination tones was the first to define the process by which the human ear hears musical tones, showing that the ear hears a musical tone only in response to sinusoidal air vibrations. Ohm lived to see his work recognized by the highest scientific authorities.

However, it was not until 1881 that the Electrical Congress at Paris officially designated the OHM as the practical unit of electrical resistance. How fortunate for the radio fraternity that the decision was made in 1881, sparing us from the confusion that resulted after the belated decision to honor Hertz by eliminating the term "cycles per second." Also fortunate was the name "Ohm" - short, easy to spell and pronounce. And when a unit was needed to express conductance, the reciprocal of resistance, how logical it was to use Ohm spelled backwards - the MHO.

Ohm's Law was originally developed to define the relationships in direct current circuits. By the last part of the 19th century alternating current was becoming an important part of electrical work. The basic theory of Ohm was so sound that it was found that the same relationships with suitable modifications, would hold true in alternating current circuits. Not all of us are good at remembering the laws of electricity, but some elements of Ohm's Law can easily be remembered in simple statements such as "A current of one ampere produces a voltage drop of one volt across a resistance of one ohm." Simple as it is, Ohm's Law for DC sometimes completely escapes the memory when we are trying to figure out what size is needed to feed that new transceiver that draws 25 amperes at 12 volts! At such times it is hard to beat the familiar resistance triangle. Fix it in your memory, and you can get on the right track by putting the finger over the unknown part of the equation.



$$E = IR,\ I = \frac{E}{R} \text{ and } R = \frac{E}{I}$$

Very simple! Remember it and it will unlock the mind for more complex problems.

Why was the ham happy he finished a jigsaw puzzel in 8 months? Because on the box, it said 4 to 6 years.

A load of hams in a car going to Disney World. passed a sign that said "Disney World left", so they turned around and went home.

RACES COUNCIL MINUTES 9/8/92

Minutes of the last Council meetings were read.

EM read a letter from Ray Kassis, N4LEM, stating his resignation from the position of EC. The resignation was accepted by EM on August 27, 1992.

It was moved and seconded by HARC and IRARC that the Council recommend to EM that Jim Bayless W4BAL, President of the Council, be appointed EC. After a discussion on the cause for Mr. Kassis's resignation, a question was asked: Will Mr. Bayliss resign from the office of President? It was stated by EM that the ByLaws do not require such. The motion was then passed unanimously. EM listed N4LEM's contributions to RACES, and the Council then voted a recommendation that Mr. Kassis be duly recognized by EM with a Certificate of Recognition.

The Action Item given the RO and TO to set up a Net Controller schedule effective 10/1/92 and on, was reviewed. The Actionees had not completed the item and stated they would complete it ASAP.

The question raised at the August meeting re the RACES Net vs FCC RACES regs was reviewed by AA4MI. He stated that if the weekly net preamble is changed to call the net part of an overall activity, then the objectives the FCC sought would be fulfilled.

AA4MI advised that the 10 meter band frequency, 28.450 MHz, chosen by the Council last meeting is not in the authorized RACES frequency sub-band. A new one must be selected.

RO reported that the 147.135 repeater cavities had been shorted by a lightning strike and are not repairable. He has separated the transmit and receive lines to different antennas, and will seek out another set of cavities from a surplus source. The EM rep added that a requisition for a packet transceiver has been submitted.

Hurricane Andrew activities by meeting participants were heard. Significant to the Council's interests were:
*The Brevard Sheriff's Communications Van will have amateur radio.
*Emergency antennas (and a repeater) are a must for Brevard RACES.
*Tactical Calls are necessary and training for same is required.
*Packet is very effective (with printed traffic) and should be planned for.
*The 12 volt Molex connector standard should be reviewed by the Council.
*Knowledge of adjacent counties and mutual aid are very necessary.
*The Brevard RACES call-out system should be exercised.

23 were in attemdamce.

E.Baldwin, KK4RBD, Secretary

FOR SALE

35' Commercial type tower
Disassembled in 2 sections
Can be delivered in local area
$65.00
Jim W4UYZ 632-6809

FOR SALE

Yaesu FT-101EE with Mike	$325
Yaesu FTV-250 2 meter Transverter	$80
Yaesu FV-101B Remote VFO	$75
Cushcraft ATB-34 Triband Beam	$135
Roadtalker 40 SSB CB converted to 10 meters. 12 volt model	$60

LES WIDICK K4BZJ
267-1013

FCC PETITION & COMMENT PROCEDURES

By Carl Zelich, AA4MI
ARRL Assistant Director, SE Division

"Hey, Carl, how do I tell the FCC to change such and such?" "I'm gonna let those guys know what they're doing to us HAMS!" "I'm gonna call them and give them a piece of my mind!" Statments such as these tell me that most HAMS are interested in responding to a proposed rule change, but they don't know how to go about it. Yelling and jumping up and down doesn't go very far. Washington doesn't do anything unless it is written down on paper! It's a "Paper Tiger" that rules our system of governing.

HERE'S HOW TO DO IT! Use the letter shown below as a guide, and follow these rules:

1. Use 8-1/2 x 11 white paper-a required FCC Procedure.
2. Type your comments with double spaced lines.
3. The XXX and YYYY in the guide letter should be replaced by the correct numbers of the rule making concerning you. These numbers are usually found in amateur radio newsletters and magazines.
4. The date is very important. Most times you only have 30 days to reply.
5. When listing your "in favor" reasons, it's better to be direct and to the point. The commissioner sees many letters, and you don't want to miss getting your point across.
6. Listing your credentials is an option, but listing them will identify your authority to speak.
7. GETTING IT TO THE FCC: They require 1 original and 5 copies as a minimum. If you want each Commissioner to receive it, you must send the original and 11 copies. Send them to: Secretary, Federal Communications Commission, 1919 M St, NW, Washington, DC 20554.
8. Also send a copy to the originator of the petition; the ARRL Committee (if there is one), and to the ARRL Director.
9. IMPORTANT! Send before the deadline!

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, DC 20554
In the matter of)
)
Amendement of Section 97 of) PR Docket No. 92-XXX
the FCC Rules to)
(a brief reference to) RM-YYY
the subject goes here))

(the date goes here)

Dear Federal Commnications Commissioner:

I am totally in favor of PR Docket No. 92-xxx for the following reasons:

1. The rf popcorn maker would be a good device to blank out the foreign broadcast stations in the 40 meter band.

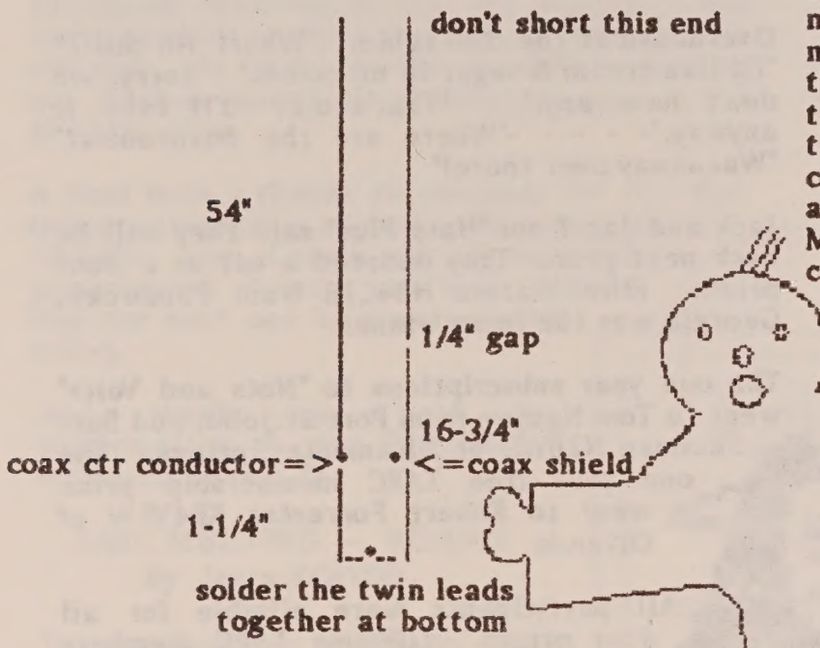
I hold an Advanced Class license and have been licensed for 14 years. I am also a (include things such as if you are commercially licensed, a Communications Engineer, or whatever will identify your authority to speak.)

Sincerely,

Joe Ham, W99XXX
123 Ampere Drive
Anywhere, USA ZIIP
407 555-1679

HOW TO BUILD A J-POLE ANTENNA
Submitted by Fred K4DII

Following is a description of a J-Pole antenna made from 300 ohn TV twin-lead. Quite a few of the hams in the area have successfully built one or more of these antennas. They have quite a few advantages which include improved performance for 2-meter HTs, portability, and last but never lease, they are inexpensive.



1. Start with 54-1/2" of TV twin lead (foan core does not work as well)
2. Strip 1/2" of insulation at bottom and solder wires together.
3. Merasure 1-1/4" from soldered wires and strip insulation on both sides. This is the solder point for a coax feedline.
4 Measure 16-3/4" from bottom and cut out 1/4" notch on one side.
5. Feed with a length of RG58U coax. Tape coax at feedpoint to the twin lead for strength and weather protection.

I have also attached an alligator clip to the plastic on the top of the antenna in order to conveniently hang it. I am successfully using one in my attic to avoid any CCNR problems. I have another that I can take with me camping, sailing, etc.

This design has appeared on many BBSs and in club newsletters; the earliest reference that I know of is a Jan. 1984 D.A.R.C. antenna article by James Burks, KA5QYV.

Enjoy, N6UBM

TORNADO WARNING DEVICES
Submitted by Archie WN3DHI

{From ARRL Emergency Coordinators Handbook} When a tornado warning has been broadcast for your area, you can use your TV or radio as a warning device. Use the TV first. Warm up your TV and tune in Channel 13. Darken the screen to almost black using the brightness control. Next tune in Channel 2 and turn the volume control down. Your tornado detection device is now in operation. Lightning will produce momentary white bands of varying widths across the screen (color produces colored bands). A tornado within 15 to 20 miles will produce a totally white screen which will remain white (or color if color). This occurs because lightning and tornados generate RF energy at about 55 MHz (Channel 2) which overides the brightness control. Channel 13, which is at the high end of the UHF band, is not effected. That is why the brightness control is set at that channel. If the screen whites or colors out, turn off your TV, take your portable radio, and immediately seek a place of shelter . Use the portable radio for emergency instructions and in case of power failure. If the radio is tuned to the 550 kHz-1600 kHz band, lightning will cause intermittent static. A tornado will cause steady, continuous static. Most homes have these two warning devices.

It might be well to keep a copy of these instructions nearby during tornado season. SEE LAST PAGE OF THIS NEWSLETTER FOR A HANDY CUTOUT OF THE INSTRUCTIONS.

UPCOMING HAMFESTS

11/7	EUSTIS At the Fair Grounds Talk in on 147.255 & 442.900
11/21	LAKE WORTH Free at Sunset Ridge Park. Talk in on 146.670 or 147.135
11/21,22	TAMPA Fla State Fair Grounds. Talk in on 147.940
12/5	OKEECHOBEE Tslk in on 147.195

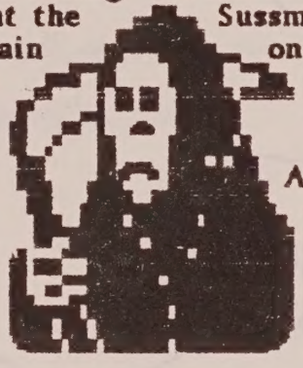
TARC HAM & SWAP TAILGATE PARTY
By: Jose KC4VIO

NOR WIND, NOR RAIN CAN KEEP DIEHARDS AWAY.

After months of preparation for our second tailgate party, Mother Nature decided to provide us with a little rain on October 3.

To everyone's amazement, however, tailgaters appeared before sunrise (ha, ha) and started to set up on the well layed-out field to wait for the eager buyers. With the assistance of many club members, tarps and awnings were erected to protect participants from the inclement weather and to allow for more comfortable browsing.

209 visitors either signed the guest roster or filled out registration slips. Many other attendees became so involved in the trading that they did not have time to register. There were 27 tailgaters counted, but there may have been some that we missed. Buying and selling as well as trading were brisk throughout the morning notwithstanding the constant rain and occassional wind gusts. The smiling faces of those present overcame the adverse conditions and made the Ham and Swap a success.



Door prizes were awarded to four lucky winners and complimentary copies of the "Nuts & Volts" monthly magazine were distributed.

Demonstrations on the different aspects of amateur radio were given at the Experimental Aircraft Association fly-in.

Due to the fact that most of the food and drink was donated by club members, the club cleared about $200 on the sale of refreshments.

The success of this annual event would not have been possible without the help of many club members who assisted in the preparation and during the day. Our sincere thanks to all of them, and to the tailgaters and all visitors. 73

EAVESDROPPING AT THE HAM & SWAP
By: Carole Ann KC4VIN

These comments were overheard by various people at various places. Some names have been omitted to protect the innocent.

"Who ordered the rain?-"- - - - "Believe me, it is NOT going to rain"- - - - "But where is it going to be at exactly?"- - - - "Why didn't you have it tomorrow?"- - - - - "Is it going to rain?" "Ducky weather!"- - - - "Are you guys going to be here tomorrow?"- - - -"Register for what?" "Where is Jerry KC4YDP?" "Waaaaay over there!"- - - - -"It's slowing down!" - - -"This is better than the heat we had last year."- - - - "It's a good thing it rained or we wouldn't have anywhere to put the crowds".- - - "Is it really free?"

Overheard at the club table: "What! No chili?" "I'd like cream & sugar in my cofee." "Sorry, we don't have any." "That's o.k. I'll take it anyway."- - - - -"Where are the bathrooms?" "Waaaaaay over there!"

Jack and Jan from "Hats Plus" said they will be back next year. They donated a hat as a door prize. Ellie Waters NB4CJB from Pembroke, Georgia was the lucky winner.

The one year subscriptions to "Nuts and Volts" went to Tom Nguyen from Port St.John, and Burt Sussman N2BWE of Altamonte Springs. The one year free TARC membership prize went to Robert Forrester KB4VSW of Orlanda.

All participants were eligible for all door prizes. Lifetime TARC members were excluded from the one year free membership prize because that would have given them life plus one year and that sounded too much like a jail sentence. Ha! Ha!

FRIENDSHIP NET QRN
By: Cliff KV4SYD

The FRIENDSHIP NET on Thursday at 6:30 pm (that's SIX THIRTY) keeps on rolling along. Gradually we are "weaning" the early diners toward the MABB (Monophonic Audio Bulletin Board) to promote greater desimination of pertinent, timely and informative news items. Subject information is of great import to an informed participant!

DATE	CHECK-INS	DATE	CHECK-INS
8/20/92	35	9/17/92	21? **
8/27/92	37	9/24/92	46
9/3/92	39	10/1/92	48
9/10/92	44		

** Lost my batteries.

On 9/24 I received a spirited response when I suggested Continued on page 7.....

.....Friendship Net (continued from page 6)
the handsomest person check in first. John WA4QFI was first, whereas Jerry KC4YDP was 46th (last), and is now suffering from low self-esteem. Next on 10/1 we asked for check-ins based on the length of time holding a ham license, longest first! Interesting gamut from Ed N4TLS at 52 years to Curt KD4POO at 4 months, Statistically, the 48 check-ins represented 776 years in ham radio (average 16 years). Interesting trivia - what? I had planned to request check-ins by age, but decided it was not a good idea. I like the job and belonging to the club. In future weeks we will be getting our check-in priorities all different ways - so pay attention.

A final note - thanks to everyone for the fine tailgate immersion at Arthur Dunn Airport on 10/3/92. Jose, Carole and all those who participated deserve a "well done". May our next one be greater (and drier).

And thank you, too, for participating in the FRIENDSHIP NET each week. 73

TARC MEETING -- 9/24/92
By Jerry KC4YDP

The meeting was called to order at 7:03 by Bud K4CWG. After the pledge of allegiance, Bud announced that 17 people attended the testing session held at 4:00 PM, and about 80% made an upgrade to their licenses. Carole, KC4VIN announced that on Oct. 3, there will be a tail gate party at the Dunn Airport in Titusville, and all members are invited to support our club.

There will be a Fox Hunt held on Sunday, Sept. 27, and Jerry KC4YDP promised not to bury the transmitter.

The agenda for the meeting was divided into two parts. The first part was conducted by KC4UUX, Major Alan Marsden of the Marine Patrol who gave a talk on his activities in the branch of law enforcement for the department of natural resources. The second part was conducted by Cliff KC4SYD who told how he single handedly overthrew the nazies in World War II. Cliff kept the whole audience rolling in their seats with one adventure story after another.

We owe a special thanks to Clara, wife of Pike W4EPU for sending the finger sandwiches which we all enjoyed during the meeting break.

A discussion was made concerning the treasurer's account, and the executive committee will hold a meeting prior to the next club meeting to resolve the concerns.

The meeting was adjourned at 8:55 PM with 45 members attending.

TARC'S DX WORLD

Some recent contacts made by Jim N4ZNQ

9H4CM	Gozo Island
FH8CB	Mayotte (Comoros)
YI1MH	Bagdad, Iraq

~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~

Three hams went to a hotel for a room. Each man paid $10.00 for the $30.00 room. Later, the clerk realized he had made a mistake - the room was only $25.00. He gave the bellboy $5.00 to return to the hams. The dishonest bellboy kept $2.00, returning $3.00 to the hams. They each took a dollar, which meant each ham paid $9.00. $9.00 x 3 = $27.00 + $2.00 kept by the bellboy =$29.00.

Where is the missing $1.00???

~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~

TREASURER'S REPORT
By: Walt Hart KC4VVG

	Checking	Savings
Beginning Balance	623.50	371.54
Income: Dues,Donations 50/50,tailgate,misc.	795.11	295.26
Undeposited	20.00	
Balance before expenses:	1438.61	666.80
Expenses: Newsletter,ARRL, telephone,repeater loan, repeater exp.	485.69	0
Balance as at 9/30/92	952.92	666.80

Repeater Loan: Beginning Bal.	3171.00
Payments made	1850.00
Balance due Bud K4CWG	1321.00

TORNADO WARNING INSTRUCTIONS

1. **Warm your TV set and turn it to Channel 13.**
2. **Darken the picture tube with the brightness control knob until the screen is almost totally black.**
3. **Then turn to Channel 2 and leave the set alone.**
4. **If your screen is stark white, or turns white, or you get a picture after being black like channel 13, this means a tornado is within 15 to 20 miles of you, or possibly closer. HEAD FOR SHELTER QUICK!!!**
5. **If lightning flashes (horizontal white streaks across your screen) become wide bands and linger, a dangerous storm is near and you should get to safety immediately. Tornados often spawn from isolated violent thunderstorms.**
6. **Be sure to take a portable radio with you to the shelter.**

TITUSVILLE AMATEUR RADIO CLUB
P. O. BOX 73
TITUSVILLE, FL 32781